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TITLE: Stabilized factor XIII and fibrinogen preparations useful as tissue adhesive components

INVENTOR: GRONSKI, P; METZNER, H

PATENT-ASSIGNEE:

ASSIGNEE

CODE

CENTEON PHARMA GMBH

CENTN

AVENTIS BEHRING GMBH

AVET

PRIORITY-DATA: 1998DE-1053033 (November 18, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1131110 A1	September 12, 2001	G	000	A61L024/10
DE 19853033 A1	May 25, 2000		013	A61L024/00
WO 200029041 A1	May 25, 2000	G	000	A61L024/10
AU 200013834 A	June 5, 2000		000	A61L024/10

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NC NZ PL PT RO RU SD SE SG SI SK SL TC TM TR TT UA UG US UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

APPL: WO 01/0141A1

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTION
EP 1131110 A1	November 18, 1998	1998DE-1053033	
EP 1131110 A1	November 18, 1998	1998WO-010141A1	
EP 1131110 A1		AU 200013834 A	Patent in
DE 19853033 A1	November 18, 1998	1998DE-1053033	
DE 19853033 A1		DE 19861158	Div in
WO 200029041 A1	November 18, 1998	1998WO-010141A1	
AT 1998010141A1	November 18, 1998	1998AT-010141A1	
EP 1131110 A1		WO 1999010141A1	Patent in

NOVELTY - A fibrinogen-free, factor XIII preparation is stabilized with a di- or tricarboxylic acid salt and other stabilizers. Also new are fibrinogen-containing preparations stabilized with chaotropic substances and a tissue adhesive pack consisting of the factor XIII preparation, a fibrinogen-containing preparation and a thrombin preparation.

DETAILED DESCRIPTION - A stabilized, fibrinogen-free, protein preparation which can be stored in liquid form contains:

- (a) blood coagulation factor XIII;
- (b) a di- or tricarboxylic acid salt, especially a citrate; and
- (c) additional factor XIII stabilizers.

INDEPENDENT CLAIMS are also included for:

(A) a stabilized, liquid or deep-frozen protein preparation containing fibrinogen and less than 0.28 mol/l of a chaotropic substance which prevents or reduces fibrinogen aggregation; and

(B) a tissue adhesive comprising a unit pack containing as separate components either:

(i) the stabilized fibrinogen-free protein preparation, the stabilized, liquid or deep-frozen, fibrinogen-containing protein preparation and a thrombin-containing preparation; or

(ii) a mixture of the fibrinogen-free and fibrinogen-containing protein preparations and a thrombin-containing preparation.

USE - As tissue adhesive or for topical and parenteral therapeutic treatment.

ADVANTAGE - Compared with prior art formulations known from e.g. EP85923, DE19617369, EP856317 and 437713, the preparations have improved stability without loss of activity of the active agent and/or a reduced content of chaotropic substances. E.g., after a deep frozen preparation has been thawed it has a shelf life of at least 4 weeks up to several months compared with a few days for conventional concentrates.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: FACTOR FIBRINOGEN PREPARATION USEFUL TISSUE ADHESIVE COMPONENT

DERWENT-CLASS: B04 D16 D22 P34

MI-INDEX: B04-B10; B04-A 0; B04-B04; B04-B05; B04-B06; B04-B07; B04-B08; B04-B09; B04-B10; B04-B11; B04-B12; B04-B13; B04-B14; B04-B15; B04-B16; B04-B17; B04-B18; B04-B19; B04-B20; B04-B21; B04-B22; B04-B23; B04-B24; B04-B25; B04-B26; B04-B27; B04-B28; B04-B29; B04-B30; B04-B31; B04-B32; B04-B33; B04-B34; B04-B35; B04-B36; B04-B37; B04-B38; B04-B39; B04-B40; B04-B41; B04-B42; B04-B43; B04-B44; B04-B45; B04-B46; B04-B47; B04-B48; B04-B49; B04-B50; B04-B51; B04-B52; B04-B53; B04-B54; B04-B55; B04-B56; B04-B57; B04-B58; B04-B59; B04-B60; B04-B61; B04-B62; B04-B63; B04-B64; B04-B65; B04-B66; B04-B67; B04-B68; B04-B69; B04-B70; B04-B71; B04-B72; B04-B73; B04-B74; B04-B75; B04-B76; B04-B77; B04-B78; B04-B79; B04-B80; B04-B81; B04-B82; B04-B83; B04-B84; B04-B85; B04-B86; B04-B87; B04-B88; B04-B89; B04-B90; B04-B91; B04-B92; B04-B93; B04-B94; B04-B95; B04-B96; B04-B97; B04-B98; B04-B99; B04-B100; B04-B101; B04-B102; B04-B103; B04-B104; B04-B105; B04-B106; B04-B107; B04-B108; B04-B109; B04-B110; 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Fragmentation Code  
M423 M431 M782 M905 P942 Q233  
Specific Compounds  
AC04AK AC3NAM

## Chemical Indexing M2 \*04\*

Fragmentation Code  
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J13 M281 M313 M321 M333 M344 M349 M381 M391 M411  
M441 M510 M520 M530 M540 M620 M630 M782 M904 M905  
P942 Q233 Q620  
Specific Compounds  
4404K 040341 AC01BK AC01DM  
Registry Numbers  
4190

## Chemical Indexing M2 \*05\*

Fragmentation Code  
A200 A967 C110 H4 H401 H481 H8 J0 J013 J1  
J13 M281 M313 M321 M333 M344 M349 M381 M391 M411  
M441 M510 M520 M530 M540 M620 M782 M904 M905 P942  
Q233 Q620  
Specific Compounds  
6509K 0630M1 12353K 12353M

## Chemical Indexing M2 \*06\*

Fragmentation Code  
H4 H401 H4-1 H8 J0 J011 J1 J171 M280 M312  
M311 M331 M340 M342 M349 M381 M391 M416 M431 M620  
M782 M904 M915 M910 P942 Q233 Q620  
Specific Compounds  
00009K 0000M4 06285K 06285M  
Registry Numbers  
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## Chemical Indexing M2 \*07\*

Fragmentation Code  
M431 M782 M905 P942 Q233 Q620  
Specific Compounds  
A0120K A01211

## Chemical Indexing M2 \*08\*

Fragmentation Code  
H1 H100 H181 J0 J011 J1 J171 M280 M311 M321  
M342 M349 M381 M391 M416 M431 M620 M782 M904 M905  
M910 P942 Q233 Q620  
Specific Compounds  
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Registry Numbers  
0104

## Chemical Indexing M2 \*09\*

Fragmentation Code  
H1 H100 H181 J0 J012 J1 J171 J3 J301 M280  
M311 M320 M342 M349 M381 M392 M416 M431 M620 M782  
M904 M910 M915 P942 Q233 Q620  
Specific Compounds  
010121 010121

010121 010121 010121 010121 010121 010121 010121 010121 010121 010121  
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M904 M905 M910 P942 Q233 Q620  
Specific Compounds  
01210K 01210M 10414K 10414M  
Registry Numbers  
1210U

## Chemical Indexing M1 \*11\*

Fragmentation Code  
H1 H100 H111 H4 H498 H9 J0 J011 J1 J171  
M280 M312 M311 M332 M343 M349 M381 M391 M416 M431  
M620 M782 M904 M905 M910 P942 Q233 Q620  
Specific Compounds  
10618K 10618M 10616K 10616M  
Registry Numbers  
1638U

## Chemical Indexing M1 \*12\*

Fragmentation Code  
P314 P521 H1 H100 H181 J0 J011 J1 J171 M280  
M312 M331 M332 M343 M349 M371 M391 M413 M431 M510  
M521 M533 M540 M782 M904 M905 M910 P942 Q233 Q620  
Specific Compounds  
1636K 1636M 04743K 04743M  
Registry Numbers  
1636U

## Chemical Indexing M1 \*13\*

Fragmentation Code  
H1 H100 H111 J0 J012 J1 J171 J3 J371 M280  
M313 M331 M332 M343 M349 M381 M391 M416 M431 M520  
M782 M904 M905 M910 P942 Q233 Q620  
Specific Compounds  
01115K 01115M 04748K 04748M  
Registry Numbers  
0115U

## Chemical Indexing M1 \*14\*

Fragmentation Code  
H1 H405 H484 H8 F0 L8 L816 L821 L833 M280  
M315 M331 M332 M344 M383 M391 M416 M431 M620 M782  
M904 M905 M910 P942 Q233 Q620  
Specific Compounds  
00290K 00290M  
Registry Numbers  
0290U

## Chemical Indexing M1 \*15\*

Fragmentation Code  
P012 P013 P014 P015 P016 P017 P018 P019 P020 H4  
H405 H406 H407 H408 H409 H410 H411 H412 H413 H414 H415  
L816 L817 L818 L819 L820 L821 L822 L823 L824 L825  
M393 M413 M414 M415 M416 M417 M418 M419 M420 M421 M422  
M910 P942 Q233 Q620  
Specific Compounds  
00135K 00135M  
Registry Numbers  
1210U

Registry Numbers  
1661U

## Chemical Indexing M2 \*17\*

Fragmentation Code  
K0 L2 L250 M280 M320 M416 M431 M620 M752 M904  
M905 M910 P942 Q233  
Specific Compounds  
00956K 00956M 14018K 14018M  
Registry Numbers  
0956U

## Chemical Indexing M4 \*18\*

Fragmentation Code  
K0 L4 L432 M280 M320 M416 M431 M620 M752 M904  
M905 M910 P942 Q233  
Specific Compounds  
00123K 00123M  
Registry Numbers  
0123U

## Chemical Indexing M7 \*19\*

Fragmentation Code  
H1 H100 H101 J0 J011 J1 J171 K0 L4 L432  
M280 M314 M315 M332 M343 M349 M381 M391 M416 M431  
M620 M752 M904 M905 M910 P942 Q233  
Specific Compounds  
01241K 01241M  
Registry Numbers  
1241U

## Chemical Indexing M5 \*20\*

Fragmentation Code  
F013 F431 J0 J011 J3 J311 M280 M320 M413 M431  
M510 M521 M540 M540 M782 M904 M905 M910 P942 Q233  
Specific Compounds  
00678K 00678M 08443K 08443M  
Registry Numbers  
0678U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0009U : 0104U : 0115U : 0123U : 0135U :  
0290U : 0419U : 0678U : 0956U : 1210U : 1241U : 1373U : 1628U : 1636U : 1661U

## SECONDARY-ACC-NO:

FI Secondary Accession Numbers: 0000-0000

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L1: Entry 2 of 2

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Jul 1, 2000

DERWENT-ACC-NO: 1993-168905

DERWENT-WEEK: 200131

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TITLE: Purified, virus free thrombin concentrate prepn. - by treating prothrombin complex with calcium binding salt and thrombin, useful to control bleeding and in tissue adhesives

INVENTOR: KARGES, H; NAUMANN, H ; KARGES, H E ; NEUMANN, H

PRIORITY-DATA: 1991DE-4137996 (November 19, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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INT-CL (IPC): A61K 31/04; A61K 31/07; A61K 31/045; A61K 31/047; A61K 31/048; A61K 15/16; A61K 15/00; C07K 31/03; C07K 31/22; C07K 31/26; C07K 15/06; C12N 9/74

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Term	Documents
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